

**Amendments to the Specification**

**IN THE WRITTEN DESCRIPTION**

Please replace paragraph [0002] with the following amended paragraph:

**[0002]** This invention relates to a method and an apparatus for producing a mold by machining a mold material produced by casting, and it can be used for production of a mold for pressing work, a mold for injection molding, and ~~the~~ other molds.

Please replace paragraph [0014] with the following amended paragraph:

**[0014]** According to the above, when the product forming plane is worked, the worked reference plane is made the supporting surface in the mold working machine, and therefore work can be performed with the reference plane being supported and fixed on ~~the~~ a table of the mold working machine, thus making it possible to machine the product forming plane while being stabilized, thereby providing high precision.

Please replace paragraph [0026] with the following amended paragraph:

**[0026]** An apparatus for producing a mold according to the present invention is an apparatus for carrying out the method for producing the mold explained above with the use of a computer.

Please replace paragraph [0029] with the following amended paragraph:

**[0029]** Further, the working capability data of the mold working machine is stored in the storage means, and after the computing means computes what portions of the product forming plane are worked and how many times they are worked based on the working capability data, the computing means makes the

mold working machine work the aforementioned product forming plane.

Please replace paragraph [0050] with the following amended paragraph:

**[0050]** A measuring device 16 for measuring the shape of the mold member 20 is also connected to the computer 12. The measuring device 16 is a three-dimensional measuring device utilizing an image-pickup type moire, and which is capable of hexaxially controlling the direction of a camera and simultaneously ~~process~~processing many points of an image. The computer 12 is loaded with shape measuring support system software capable of giving an automatic tracking command to the measuring device 16, so that the effective shape measurement of the mold member 20 can be made.

Please replace paragraph [0062] with the following amended paragraph:

**[0062]** In the state shown on the display, the envelope model M2 of the mold member 20, as based on the measurement data, is linearly moved in directions of ~~the~~the axes X, Y and Z orthogonal to one another and also rotated around the three axes X, Y and ~~X~~Z by the operation of the operation unit 12B. It is noted that the envelope model M2 can be linearly moved and rotated automatically by software.

Please replace paragraph [0071] with the following amended paragraph:

**[0071]** In this embodiment, based on the measured shape of the mold member 20 stored in the storage unit 12A of the computer 12, the envelope model M2 of the mold member 20 is generated and capable of being displayed on the display unit 12C. Subsequently, the envelope model M2 is linearly movable in the directions of the three axes X, Y and ~~X~~Z orthogonal to one another and rotatable around the three axes. Thus, in such a manner, the envelope model M2 can be brought into close

proximity to the mold model M1 that is generated based on the mold design data and compared.

Please replace paragraph [0075] with the following amended paragraph:

**[0075]** It becomes unnecessary to perform a cutting operation numerous times while detecting what portions of the mold member 20 protrude beyond an acceptable boundary by moving a cutting tool and the like over the entire product forming plane 20B, and it becomes possible to reduce the time ~~for~~of air cutting during which the tool is moving but not machining the mold member.

Please replace paragraph [0077] with the following amended paragraph:

**[0077]** Even when a casting with a low precision is used as a mold member, the work amount required by the product forming plane 20B is reduced and the cutting time can be shortened, thus making it possible to generate complicated product shapes while reducing the cost and lead time of the molds.